KLEEN-FLO TUMBLER IND	MATERIAL SAFETY DATA SHEET PAGE 1						
SECTION I-MATERIAL IDE	NTIFICATION AND	<u>USE</u>					
Material Name/Identifier:	KF MAX Motor C	reeze	Stock No.		400		
Manufacturer's Name:	Kleen-Flo Tumbler Industries Ltd		Street Addre	- I		75 Advance Blvd.	
City:	Brampton		Province:			Ontario	
Postal Code:	L6T 4N1		Emergency Phone #: CANUTEC:-		CANUTEC:-	613-996-6666 (24HR)	
Chemical Name:	N/Av. (mixture)		Chemical Fa	Chemical Family:		Blend of aliphatic alcohol	
Chemical Formula:	N/Av. (mixture)					& aromatic hydrocarbons	
Material Use:	Gasline additive		Trade Mark & Synonyms:		KF MAX		
SECTION II-HAZARDOUS IN	NGREDIENTS OF M	ATERIAL					
Hazardous		Approximate	LD5	LD50		LC50	
Ingredients	C.A.S.	Concentration	Species &	& Route		Species & Route	
2-propanol	67-63-0	60-100%	5045 mg/kg	45 mg/kg rat-oral 16000		6000 ppm (4hr) rat-inh.	
Dimethylbenzene	1330-20-7	10-30%	4300 mg/kg	4300 mg/kg rabbit-dermal 50		5000 ppm (4hr) rat-inh.	
Ethyl benzene	100-41-4	1-5%	3500mg/kg r	3500mg/kg rat-oral		4000 ppm(4hr) rat-inhal	
SECTION III-PHYSICAL DA	TA FOR MATERIAL	<u>L</u>					
Physical State:	Volatile liquid.	Odour/Appearance: A		Alcohol odour; clear, Light Yello liquid			
Specific Gravity:	0.8 @15°C	Odour Threshold(p.p.m.):		N/Av.			
Boiling Point:	82-137°C	Evaporation Rate:		N/Av.			
Freezing Point:	N/Av.	Solubility in Water:		Partly soluble			
% Volatile(by volume):	100%	Vapour Pressure(mm)Hg:		33.0 mmHg @ 20°C			
Vapour Density(Air=1):	>1	Coefficient of Water/Oil Distribut:		N/E			
рН	N.Ap.						
SECTION IV-FIRE AND EXP	LOSION HAZARD (	OF MATERIAL					
Flammability Yes/No	Yes		If yes under which conditions: heat, open flame and sparks				
Auto Ignition Temperature:	N/Av.		Means of Extinguishing: Dry chemical, Carbon dioxide,				
Flashpoint and Method: 11°C TCC			Alcohol - resi	cohol - resistant foam.			
			Hazardous Combustion Products:carbon monoxide and carbon dioxide				
Upper Flammable limit(%vol)	12	Lower Flammable Limit(% by volume): 1					
Explosion Data:	Sensitivity of mechanical impact: Yes		Sensitivity to Static Discharge: Electrical & mechanical				
			equipment sh	ould be explos	ion proof and	grounded.	
SECTION V-REACTIVITY D.	<u>ATA</u>						
Chemical Stability Yes/No:		Yes	If NO under which conditions?		N.Ap.		
Incompatibility to Other Substances Yes/No:		Yes	If so which ones? strong oxidizing compounds, Acetaldehyde, Acids,				
			Chlorine. Ma	y react with a	luminum equi	pment at temperature above 120°	
Reactivity and under what cond	ditions?	Normally stable, but can become unstable at elevated temperatures & pressure					
Hazardous Decomposition Prod	lucts:	Carbon monoxide, carbon	n dioxide produ	ced upon comb	oustion.		
N/E: not established		N.Ap.: not appli	cable			N/Av.: not available	

Material Name/Identifier:	KF MAX Motor Conditioner Gas Line Anti-Fi	reeze Stock No. 400	PAGE 2					
SECTION VI-TOXICOLOGICAL PROPERTIES OF PRODUCT								
Route of Entry: ALL Routes	SKIN CONTACTSKIN ABSORPTIONEYE CONTACTINHALATIONINGESTION							
Effects of Acute Exposure:	Eye, Skin irritation. May cause headache, dizziness, nausea, drowsiness and central nervous system depression.							
Effects of Chronic Exposure:	High exposure to dimethylbenzene in some animal studies have been reported to cause health effects on developing							
	embryo/fetus. Their effects were often at levels toxic to the mother. The significance of these findings							
	to humans has not been determined.							
LD 50 of Product:	N/Av.	LC 50 of Product:	N/Av.					
Irritancy of Product:	Skin and eye irritant	Exposure Limits of Product:	I.P.A. 200 ppm STEL					
Sensitization of Product:	N/Av.	Xylene 150 ppm STEL, ethyl benzene	e 100 ppm ST EL					
		Toxicologically Synergistic Materials: N/Av.						
CARCINOGENICITYREI	PRODUCTIVE EFFECTSTERATOGENICIT	YMUTAGENICITY	none known					
Ethyl benzene is listed as possible carcinogenic by IARC.								
SECTION VII-PREVENTIVE MEASURES								
Personal Protective Equipment	to be used:							
Gloves(specify):	Nitrile, Viton, Chemical resistant gloves	Eye(specify): safety glasses						
Respiratory(specify):	Organic vapour mask	Clothing: Not required						
Respiratory Protection:	If used indoors or on a continuous basis, use of NIOSH approved cartridge type respirator is recommended							
Engineering Controls:	Required adequate ventilation to maintain TLV limit, electrical and mechanical equipment should be sparkproof.							
Leak and Spill Procedure:	Use non-reactive absorbent material and non sparking tools to contain spills.							
	Incase of large spill use explosion proof and grounded equipments.							
Waste Disposal:	Dispose of at an approved waste disposal facility. Or as per municipal or provincial regulation.							
Storage Requirements:	Keep in a cool well ventilated place. Keep away from heat, spark or flame							
Handling Procedures and	Handle with care. Keep away from children. Do not inhale or ingest.							
TDG Classification:	Consumer Commodity							
WHMIS Classification:	Consumer Commodity	Complies to CCCR 2001						
Domestic substance list:	All components of this product are either on the DSL or exempt.							
SECTION VIII-FIRST AID MEASURES								
Eye:	Wash with water for at least 15 minutes. Seek mediacl attention immediately.							
Skin:	Wash with soap and water. See doctor if irritation persist.							
Inhalation:	Move patient to fresh air and restore breathing if required. Call a physician if discomfort persist.							
Ingestion:	DO NOT INDUCE VOMITING. Seek medical help immediately.							
SECTION IX-PREPARATION	N DATE OF M.S.D.S.							
Additional Info/Comments:		Sources Used: Supplier's data.						
Phone Number:	(905) 793-4311 Prepared By: Quality Control Laboratory							
Date Prepared:	January 2, 2015 Kleen-Flo Tumbler Industries Limited							
THIS SHEET SUPERSEDES ANY OTHER M.S.D.S. PREVIOUSLY PREPARED								
N/E: not established	N/E: not established N.Ap.: not applicable N/Av.: not available							